June-03-13 7:23:06 AM

Item ID: D3196-3 Accept *N900040100* Setup Start *N **Revision ID:** Item Name: Bar Start Date: 6/03/13 Start Qty: 6.00 Cust Item ID: Required Date: 6/10/13 Req'd Qty: 6.00 **Customer:** Reference: Run Process Plan: ML5 Date: 13-05-03 Tooling: **Approvals:** Date: QC: _____ Date: SPC (Y/N): Date: ____ Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. Work Center ID Description Run Hours Code Otv Qty Number Stamp Draw Nbr **Revision Nbr** D3196 Rev C 100 0.00 BAND SAW 3 *100* Bandsaw 0.00 Memo 13/06/06 Jeaspa Bandsaw Cut blank: (0.75" x 1.50") x 34.750" long Bar 110 0.00 HAAS CNC VERTICAL MACHINING #1 *110* 13/06/07 HAAS 1 0.00 Memo HAAS CNC vertical machine #1 1-Machine D3196-3 as per Folio FA339 and Dwg D3196Identify as D3196-32-Deburr 120 QC2- Inspect parts off machine FAI/FAIB 0.00 *120* 13/06/07 QC Memo 0.00 Quality Control

DQA:		Date:			WORK ORDER NON	c	ANIF (A)		DDATE			,	**	
QA Closed:		Date:			WORK ORDER NON-	-((JNFOI	RIVIAINCE / U	PDATE	W	ork Order up	odate only	\neg	AEROSPACE
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Part N					Rework Scrap		l	Skid-tube Machining	Crosstube Small Fab		1	Water Jet d. Eng. Coor.		Engineering Quality
NCR N	lo				Use-as-is Suspected Unapproved		Thern	noforming Large Fab	Finishing Composite	-	Rec/Sto	re/Packaging Supplier		Other
Root				Desci	ription of work order update	l	nitial	Act	tion		Sign &			
Cause	Date	Step	Qty		or non-conformance	Ch	ief Eng	Descr	ription		Date	Verification	1	QC Inspector
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	Bending				Bend		Folio/P	rogram			Outside Dim	ensions		Pressure/Forced
Į.	Centre No	ot Concer	ntric		BOM/Route		Grain				Over/Under	tolerance	<u> </u>	Set-up
	Cracks				Broken/Damage/Defect		Hardwa	re			Part Incorred	ct [٦	Temperature/Cure
	Crimp/Kir	nk/Ripple	/Wave		Burrs		Inspecti	on Incomplete/Ur	nqualified		Part Lost/Mi	ssing	□ \	Weld
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	Crushing				Countersink		Misalig	ned/off center			Positioned V	/rong		
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	Marks/Ch	natter			Drill Holes		Off-set							
	Turning S	equence			Finish		Out of 0	Calibration						
Ī	Wave/Tw	ist in Tuh	ne		Fit/Function		Out of S	Seguence						

Setup Start *NIC1*

Reject

Number

Insp.

Stamp

Run

Accept

Qty

Code

Reject

Qty

June-03-13 7:23:06 AM Item ID: D3196-3 Accept *N900040100* **Revision ID:** Item Name: Bar Start Date: Start Qty: 6.00 6/03/13 Cust Item ID: Required Date: 6/10/13 Req'd Qty: 6.00 **Customer:** Reference: Process Plan: ____ Date: Approvals: Tooling: Date: QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Work Center ID Description **Run Hours** 130 and 13/06/10 QC8- Inspect parts - second check 0.00 *130* 0.00 Memo Quality Control 140 Chemical Conversion Coat per OSI005 4.1 0.00 *140* HandFinish Memo 0.00 Hand Finishing 150 Grey Sandtex(Ref:4.3.5.6) per QS1005 4.3 0.00 *150* Powdercoat Memo Powder Coating START TIME: FINISH TIME:

3 & Bl 13-6-10. 3XX Mof 13/06/10

m121279

DQA:	·	_ Date:						•					*	™ ⊃∧ DT
					WORK ORDER NON	-C(ONFO	RMANCE / U	PDATE			_		AEROSPACE
QA Closed:		Date:								W	ork Order u	odate only		
Work Order	r:				DISPOSITION				AGAINST	DE	PARTMENT	/PROCESS		
					Rework	1		Skid-tube	Crosstube		7	Water Jet		Engineering
Part No	0.				Scrap	1		Machining	Small Fab		Pro	d. Eng. Coor.	\exists	Quality
					Use-as-is	1		noforming	Finishing		-	re/Packaging	\exists	Other
NCR No	0				Suspected Unapproved]		Large Fab	Composite			Supplier		
Root				Desci	ription of work order update		Initial	Act	ion		Sign &		\neg	
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_	Bending	_		-	Bend	├	1	rogram		L	Outside Dim	+		Pressure/Forced
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-	Cuffs			-	Contamination	-	4	ions Incomplete/U	Inclear	<u> </u>	Part Moved	L		Wrong Stock Pulled
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-	Heat Trea		T l.		Cut Too Short	H	Mislabe				Power Loss/	Surge		Other
-	Inspectio	· .	rube		Drawing		Misread	1						<u> </u>
-	Marks/Ch				Drill Holes		Off-set	5-19						
-	Turning S Wave/Tw	•			Finish Fit/Function	\vdash	4	Calibration						
ſ	rvvave/+w	rist in Tur	JE.	1	IFILI FUNCTION	1 '	IUUIT OF S	requence						

H:/FORMS/Quality Assurance\approved QA/NCRWO RevH

120

Quality Control

June-03-13 7:23:06 AM Item ID: D3196-3 Accept Setup Start *NIC1* *N900040100* **Revision ID:** Item Name: Bar Start Qty: 6.00 **Start Date:** 6/03/13 Cust Item ID: Required Date: 6/10/13 Req'd Qty: 6.00 **Customer:** Reference: Run Start Process Plan: Date: Approvals: Tooling: Date: QC: ____ Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Reject Accept Insp. Work Center ID **Description Run Hours** Qty Code Qty Number Stamp 160 QC3- Inspect Part Finish 0.00 *160* 0.00 Memo Quality Control Identify as per dwg & Stock Location 170 *170* Packaging 0.00 Memo Packaging 180 QC21- Final Inspection - Work Order Release 0.00

0.00

Memo

pl Bours

DQA:		_ Date:											•	NA DT
					WORK ORDER NON	-C	ONFO	RMANCE / U	PDATE					AEROSPACE
QA Closed:		Date:	-							W	ork Order u	odate only		
Work Orde	er:				DISPOSITION				AGAINST	DE	PARTMENT	/PROCESS		
	···			_	Rework	1		Skid-tube	Crosstube		1	Water Jet	П	Engineering
Part N	lo.				Scrap	1		Machining	Small Fab	_	Pro	d. Eng. Coor.	⊢⊣	Quality
					Use-as-is			noforming	Finishing		Rec/Store/Packaging			Other
NCR N	lo		· · ·		Suspected Unapproved]		Large Fab	Composite]	Supplier	—	
Root				Desci	ription of work order update		Initial	Ac	tion		Sign &	·		
Cause	Date	Step	Qty		or non-conformance	Ch	nief Eng	Desc	ription		Date	Verificatio	n	QC Inspector
Design														
Doc/Data														
Equip/Tooling														
Handling/Pre														:
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Operator														
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}	Bending			<u> </u>	Bend	<u> </u>	1	rogram		<u> </u>	Outside Dim		\vdash	Pressure/Forced
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}	Crimp/Kir	nk/Ripple	e/Wave	<u> </u>	Burrs	<u> </u>	1	on Incomplete/Ui		<u> </u>	Part Lost/Mi	ssing		Weld
.	Cuffs			-	Contamination	<u> </u>	4	ions Incomplete/I	Jnclear	-	Part Moved			Wrong Stock Pulled
-	Crushing			-	Countersink	<u></u>	1	ned/off center		-	Positioned V	· · · · · ·		
	Heat Trea			-	Cut Too Short	<u> </u>	Mislabe			<u> </u>	Power Loss/	Surge		Other
	Inspectio	· .	Tube	<u> </u>	Drawing	-	Misread	1						
}	Marks/Ch			-	Drill Holes	<u> </u>	Off-set							
}	Turning S	•			Finish Fit/Function	\vdash	4	Calibration						
	Wave/Tw	ast in Tub	ne -	1	IFIT/FUNCTION	1	IOut of 9	Sequence						

Picklist Print

June-03-13 7:23:10 AM

Work Order ID: 102561

Parent Item:

D3196-3

Parent Item Name: Bar

102561

D3196-3

Start Date: 6/03/13

Required Date: 6/10/13

Start Qty: 6.00

Required Qty: 6.00

Comments:

IPP Rev: A New Issue 05-11-08 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6B0.750X01.50		Purchased	No		··· = 	100	f	32.8350	2.89	18.25263	-		

M6061T6B0 750X01 500

		,	**	PP 13/06/66
<u>Locatio</u>	<u>n</u>	Loc Oty	Loc Code	, -
MAT04	9	32.835		
	122753	8.835		
→	m125771	24		8.72

Page 1

DQA:	<u></u>	_ Date:										NADT.
					WORK ORDER NON-	-CC	ONFO	RMANCE / UPDATE				AEROSPACE
QA Closed:		Date:		,					W	ork Order u	odate only	
Work Orde	er:				DISPOSITION			AGAINST	DE	PARTMENT	/PROCESS	
					Rework		l	Skid-tube Crosstube	•]	Water Jet	Engineering
Part N	lo.				Scrap			Machining Small Fab	,	Pro	d. Eng. Coor.	Quality
				-	Use-as-is		Thern	noforming Finishing	3	Rec/Sto	re/Packaging	Other
NCR N	lo.				Suspected Unapproved			Large Fab Composite	:[]	Supplier	
Root				Desci	ription of work order update	l	Initial	Action		Sign &		
Cause	Date	Step	Qty		or non-conformance	Ch	nief Eng	Description -		Date	Verification	QC Inspector
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Offset/Setup												
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Landir	ng Gear				General		•		_	-		_
	Bending				Bend		Folio/P	Program	L	Outside Dim	ensions	Pressure/Forced
	Centre N	lot Conce	ntric	ļ	BOM/Route		Grain		_	Over/Under	tolerance	Set-up
	Cracks				Broken/Damage/Defect		Hardwa	re		Part Incorre	ct	Temperature/Cure
	Crimp/Ki	nk/Ripple	e/Wave		Burrs		Inspecti	ion Incomplete/Unqualified		Part Lost/Mi	ssing	Weld
	Cuffs			<u> </u>	Contamination		4	ions Incomplete/Unclear	L	Part Moved		Wrong Stock Pulled
	Crushing				Countersink		-	ned/off center		Positioned V		·
	Heat Tre				Cut Too Short		Mislabe			Power Loss/	Surge	Other
		on Strip in	Tube		Drawing	⊢	Misread	d				
	Marks/C				Drill Holes		Off-set					
		Sequence			Finish		4	Calibration				
	Wave/Tu	wist in Tul	be		Fit/Function		Out of S	Sequence				

DART AEROSPACE LTD	Work Order:	102561
Description: Bar	Part Number:	D3196-3
Inspection Dwg: D3196 Rev: C		Page 1 of 1

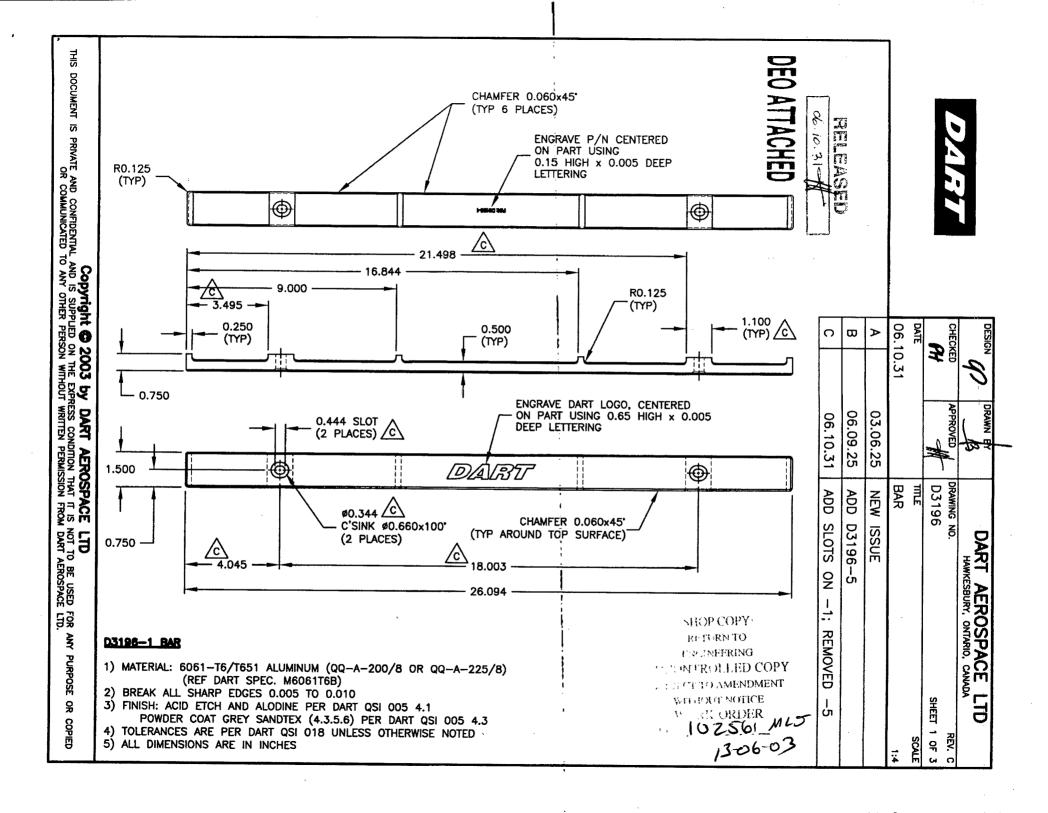
FIRST ARTICLE INSPECTION CHECKLIST

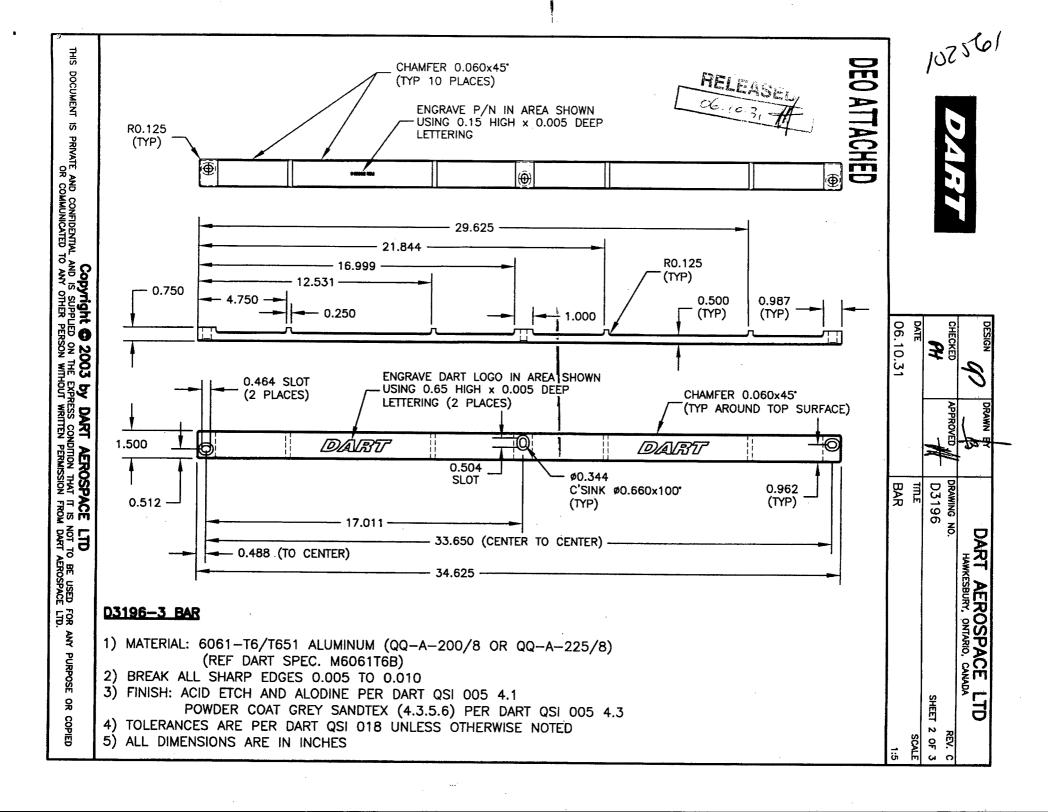
X First Article Prototype

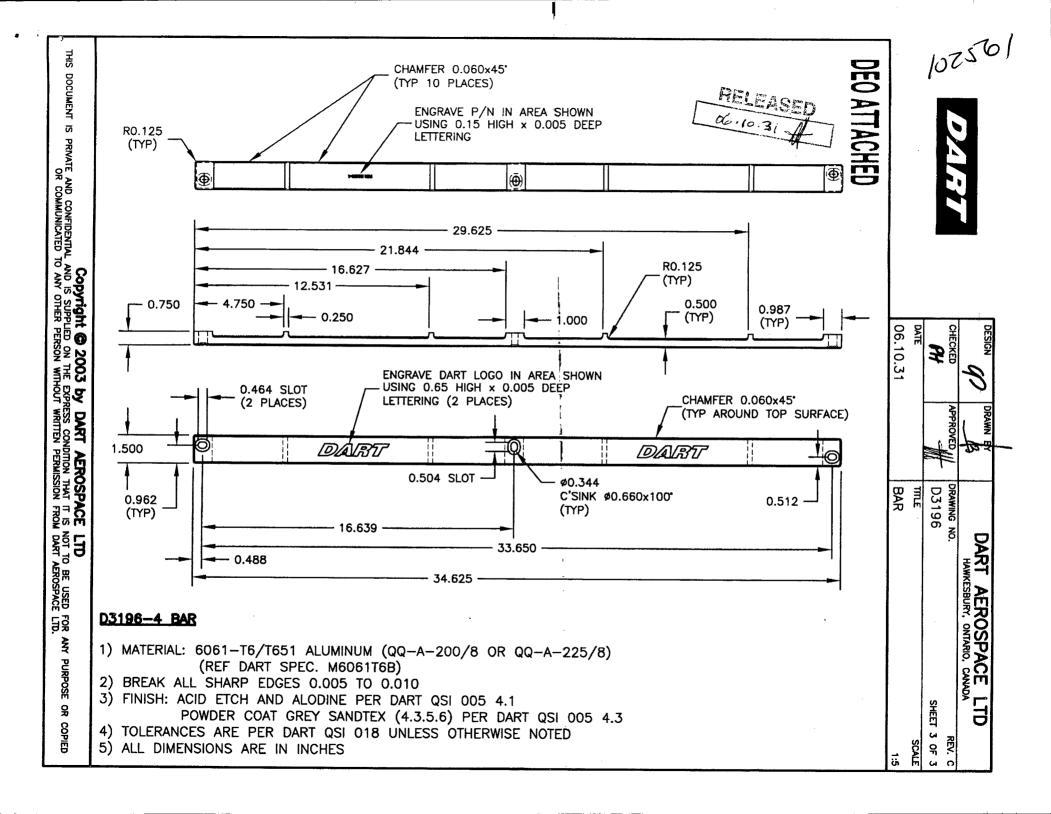
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
34.625	+/-0.010	34 625		^	MTape	840-4
33.650	+/-0.005	33 650	/		HASS Z	1-10-11
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17.011	+/-0.010	17.011	V		HA552	
0.512	+/-0.005	^ 2OS			VERN	· PHO. 12
1.500	+/-0.010	1,496	V		41	L
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0.060 x 45°	+/-0.010 x 0.5°	۰ 063			11	1.

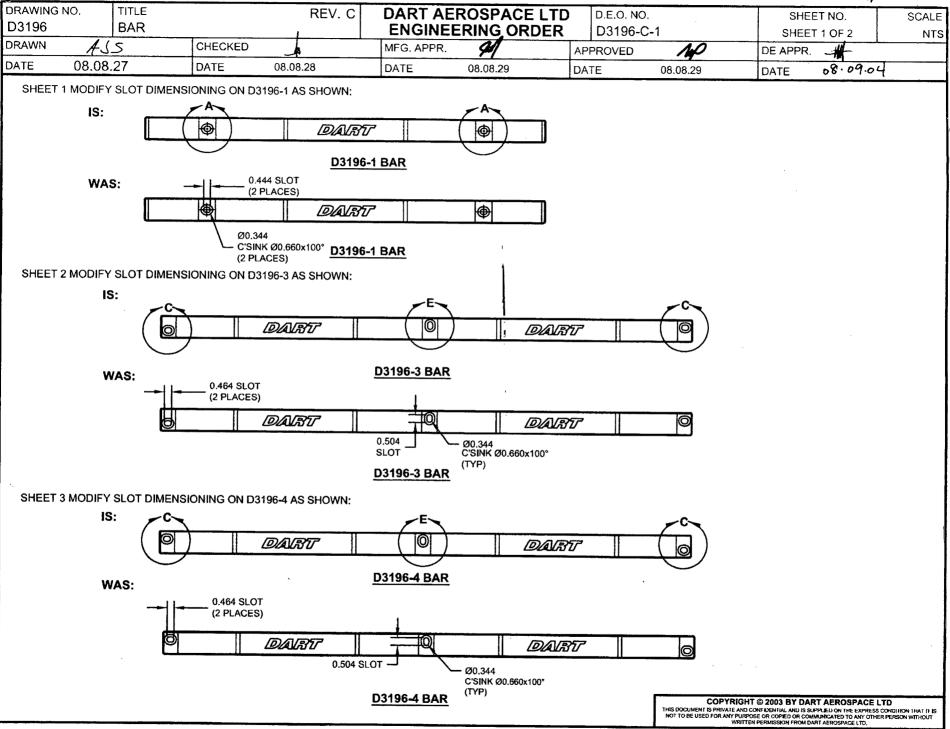
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Date: 13/66/67	Date:	13/06/10	Date:	N/A

Rev	Date	Change	Revised by	Approved
Α	04.04.20	New Issue	KJ/RF	
В	06.10.24	Dwg Rev. updated	KJ/JLM , ,	1
C	07.05.08	Dwg Rev. updated	KJ/JLM OX	adl



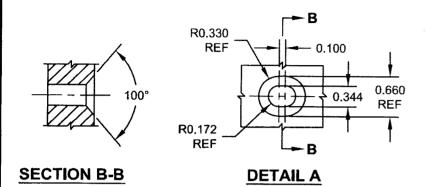


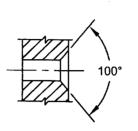


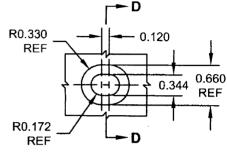


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	DRAWING NO.	TITLE		REV. C	DART AER	OSPACE LTD	D.E.O. NO.		SHEE	T NO.	SCALE
	D3196	BAR	•		ENGINEER	RING ORDER	D3196-C-	1	SHEET	2 OF 2	NTS
	DRAWN A	کی ۔	CHECKED	b	MFG. APPR.	94	APPROVED	160	DE APPR.	#	
	DATE 08.08	3.27	DATE 08.0	8.28	DATE	08.08.29	DATE	08.08.29	DATE	08.09.04	
							01112	00.00.20	DATE	00.01.07	

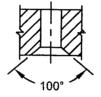




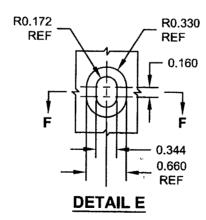


SECTION D-D

DETAIL C



SECTION F-F



NOTE: THIS CHANGE HAS BEEN DONE TO CLARIFY SLOT DIMENSIONS ONLY. NO CHANGES HAVE BEEN MADE TO THE PARTS SEE NCR 08-051 FOR FURTHER INFORMATION ALL OTHER INFORMATION REMAINS UNCHANGED

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